

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P219382

Luminaire Tested: **SSLED-LD5-18-M-UNV-L840-CD1-UPL-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P219382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27259)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-18-M-UNV-L840-CD1-UPL-U
Description: METALUX ROUND HIGH BAY STEELER LED WITH MEDIUM DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND. UPLIGHT REFLECTOR ACCESSORY INSTALLED. FIXTURE CENTERED TO LEDS
Light Source: (240) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15981.2 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.18
Luminous Opening: Circular (Dia: 1.41' x H: 0')
CIE Type: Direct

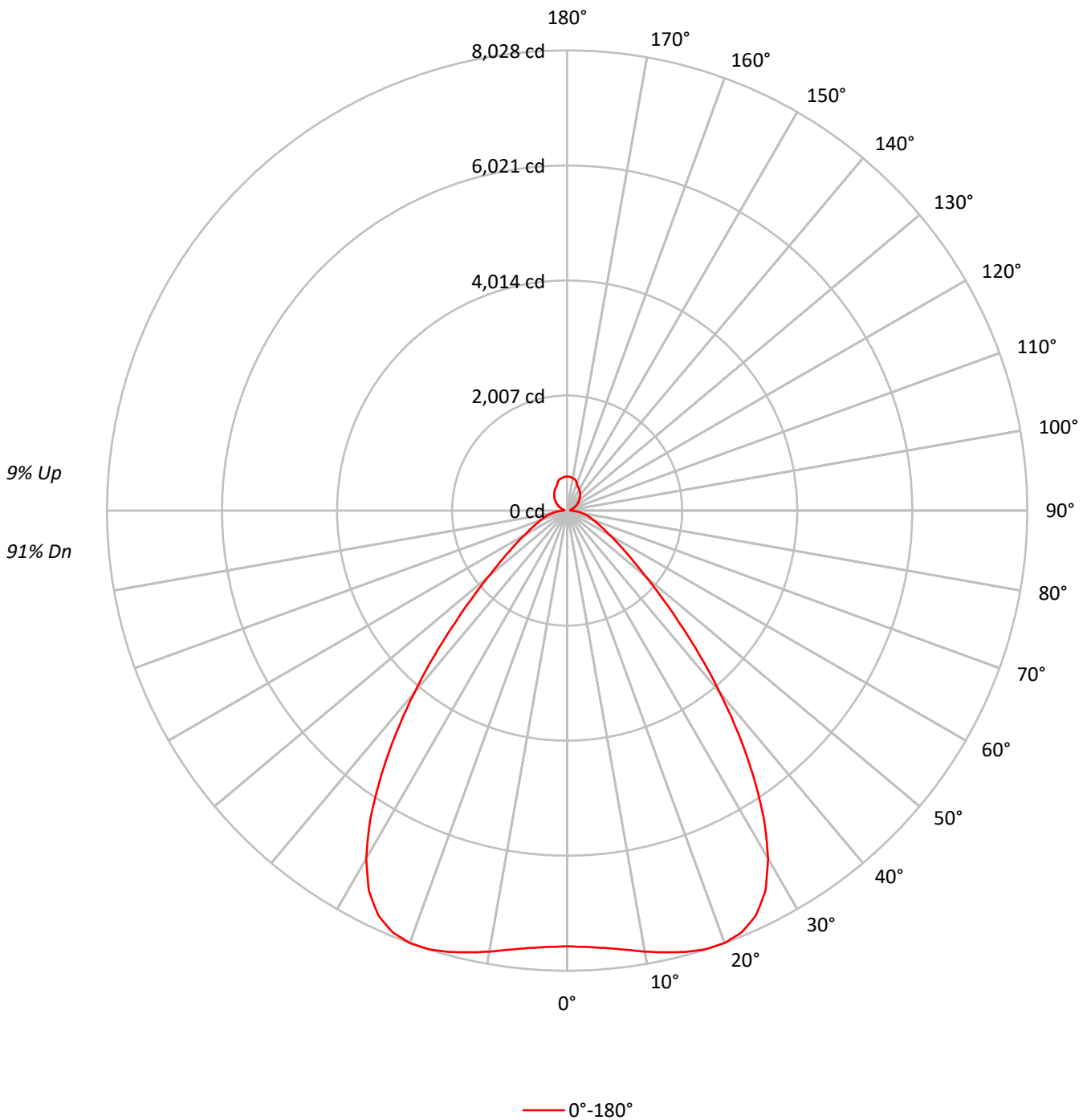
Input Watts (W): 133.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94	94	94	91
1	109	105	102	99	105	102	99	96	96	94	92		91	89	87		86	85	83	81
2	101	95	89	85	98	92	87	83	87	83	80		83	80	77		79	76	74	72
3	94	86	79	74	91	83	77	73	79	74	70		76	71	68		72	69	66	64
4	88	78	70	65	85	76	69	64	72	67	62		69	64	61		66	62	59	57
5	82	71	63	58	79	69	62	57	66	60	56		64	58	54		61	57	53	51
6	76	65	57	52	74	64	56	51	61	55	50		59	53	49		56	52	48	46
7	71	60	52	47	69	58	51	46	56	50	46		54	49	45		52	47	44	42
8	67	55	48	43	65	54	47	42	52	46	41		50	45	41		49	44	40	38
9	63	51	44	39	61	50	43	39	48	42	38		47	41	37		45	40	37	35
10	59	47	40	36	57	47	40	35	45	39	35		44	38	34		42	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52393
5°	52995
10°	54692
15°	56887
20°	58891
25°	59282
30°	55816
35°	47686
40°	37317
45°	26917
50°	19182
55°	14649
60°	11981
65°	10531
70°	9876
75°	10174
80°	10877
85°	11722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.0	4.6
10°-20°	2257.5	14.1
20°-30°	3546.1	22.2
30°-40°	3504.9	21.9
40°-50°	2175.9	13.6
50°-60°	1123.8	7.0
60°-70°	650.8	4.1
70°-80°	402.9	2.5
80°-90°	177.6	1.1
90°-100°	63.7	0.4
100°-110°	83.4	0.5
110°-120°	148.2	0.9
120°-130°	206.0	1.3
130°-140°	241.6	1.5
140°-150°	243.4	1.5
150°-160°	210.2	1.3
160°-170°	153.5	1.0
170°-180°	55.7	0.3
0°-30°	6539.6	40.9
0°-40°	10044.5	62.9
0°-60°	13344.3	83.5
0°-90°	14575.5	91.2
90°-120°	295.4	1.8
90°-150°	986.3	6.2
90°-180°	1406.0	8.8
0°-180°	15981.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7600	
5°	7658	736
15°	7971	2258
25°	7794	3546
35°	5666	3505
45°	2761	2176
55°	1219	1124
65°	646	651
75°	382	403
85°	148	152
90°	79	44
95°	54	46
105°	75	83
115°	150	148
125°	230	206
135°	314	242
145°	389	243
155°	454	210
165°	553	153
175°	589	56
180°	593	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7600.3
2.5°	7619.7
5°	7658.4
7.5°	7724.7
10°	7813.3
12.5°	7893.0
15°	7971.1
17.5°	8024.0
20°	8027.7
22.5°	7961.5
25°	7793.9
27.5°	7484.9
30°	7012.1
32.5°	6392.5
35°	5666.5
37.5°	4905.5
40°	4146.8
42.5°	3420.0
45°	2761.0
47.5°	2219.7
50°	1788.6
52.5°	1469.1
55°	1218.9
57.5°	1028.3
60°	869.0
62.5°	744.6
65°	645.6
67.5°	562.2
70°	490.0
72.5°	433.4
75°	382.0
77.5°	329.1
80°	274.0
82.5°	217.4
85°	148.2
87.5°	110.2
90°	78.9
92.5°	51.4
95°	54.4
97.5°	57.3
100°	61.8
102.5°	67.8
105°	75.2
107.5°	87.9
110°	108.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	130.3
115°	150.4
117.5°	169.8
120°	189.1
122.5°	210.0
125°	230.1
127.5°	250.9
130°	272.5
132.5°	293.4
135°	313.5
137.5°	332.8
140°	352.2
142.5°	371.6
145°	389.4
147.5°	406.6
150°	422.9
152.5°	437.8
155°	454.2
157.5°	472.8
160°	496.7
162.5°	528.7
165°	553.3
167.5°	564.4
170°	572.6
172.5°	581.5
175°	589.0
177.5°	592.0
180°	592.7

(END OF REPORT)